

Steve Suhring

Shutdown Work List Review



Thomas Jefferson National Accelerator Facility

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Summer Scheduled Accelerator Down 7/29-9/17/04

This will be a bird's eye view of the shutdown



Thomas Jefferson National Accelerator Facility

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**Office of
Science**

U.S. DEPARTMENT OF ENERGY

Operated by the Southeastern Universities Research Association for the U.S. Department of Energy

- Planning meetings 8:00 daily in the MCC
- Satellite Control Room in B87
 - Staffed throughout the day: [x7045](#) and [x7050](#)
 - Computer terminals available for elog entries
 - Computer screens for signal controls/monitoring
- Crew Chief phone will be staffed all the time: [630-7050](#)
- Fire alarms will be handled by the Guard Staff: [x4444](#)
- Site Safety Warden, Ned Walker: [x6638](#)
- Hall work requires a call to the Hall Coordinators
- Drive like you mean it.



Talk about your work before starting. Pre-job planning.

Training: Are you trained to perform your task?

Do you have Equipment Specific Training?

LOTO?

Talk with your Supervisor before starting work.

Radcon support – 876-1743

Working in Hall racks–Beryllium 7 swipes

Material removal: Separate metal from general trash.

Roped areas at N&S Access Buildings

Radiation Work Permits:

<http://docushare.jlab.org/Get/File-8134/GAP2004.doc>

TLD's:

Use the badge racks



Major Tasks:

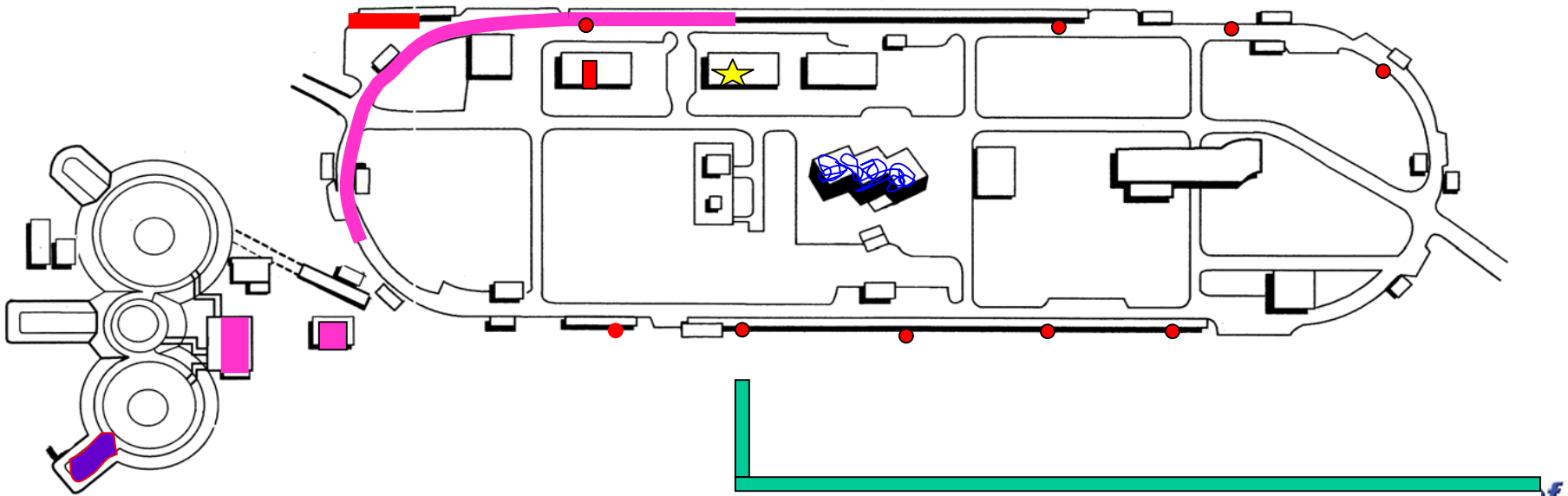
Injector Laser Hut: Subcontractors-HVAC, clean room

Cryo: Rotating equipment, cranes, ladders, welding, u-tubes

Site Power: VEPCO tree removal+, power outages for PM

Penetrations: Stone dumping

Hall C dump diagnostics: RWP, confined space, RWII



Summer'04 SAD

Red: Lock Up Blue: System Interruption Green: Support DC04-07b.doc SFS 04-07-26

Sun	M	T	W	H	F	Sat
Owl July 25	26	27	28	29	30	31
	Facility Development Beam for Physics	Facility Development Beam for Physics 1330 Safety Meeting	Facility Development Beam Studies	PGun3 NEG removal Laser hut tear down Inj AC piping inst Stub Tuners Cryomodule shield test 1L12, 2L21 Helium LL to 77%, 195gps, shield flow low MCC Demolition	Inj alignment network 45MeV dump move VIP HV rework NL12 lower LL for WW FEL OFF 1700 PSS Down until 8/27	Network Outage Cryo net segmentation MCC Renovation
Swings						
Owl August 1	2	3	4	5	6	7
Day Inj align network SS Vacation all wk	Laser hut inst. Flooring inst. Penetration Stone Drop TC Recomb Diags NL12 30K park CHL 4.5K transition 2 nd stage compress off	Clean Air Tech inst. NL12 WW MCC Power Outage Tours: 9:00 & 13:30	LCW backfeed Hall A to BSY? NL13 lower LL for WW	PGun3 NEG, cathode, cesiator. Start bake. 4.5K cooldown NL13 30K WW NL14 lower LL for WW		
MCC Renovation						
Swings						
Owl 8	9	10	11	12	13	14
Day Laser hut inst PGun3 bake comp	Laser table rebuild PGun3 activate & hi-pot Wien quad rework 1L13 4.5K cooldn 1L14 WW NL15 30K WW CHL C4 ON, C5&6 OFF	iocea2 segmentation 1L14 cooldown	ioewa2 segmentation NAB Cooling Tower Off Gear reducer & LCW pipe repair NL15 cooldown SBR test run	SAB Cooling Tower Off CHL Down Cryo reconfig to SBR	PGun3 superlattice Begin bakeout	
MCC Renovation						
Swings						
Owl 15	16	17	18	19	20	21
Day	Laser table work VEPCO ground fault relay, tree removal, PM Jefferson feed 7.5MVA Cryo network switches, router upgrades, CAMAC segmentation SBR4K charcoal adsorb CHL cooling tower Crane Certifications	Transformer Oil Chng CH1: CHL4160V	PGun3 activate Transformer Oil Chng LN1, W5 in series CHLSRV replacement	PGun2 heat & activate VEP0L06 removal Transformer rain day CHL cleanup New MCC Online	DP Activation	
MCC Renovation						
Swings						

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Owl 22	23	24	25	26	27	28
Day Laser align.	45MeV PS install & test CHL 4.5K R2K coldbox SBR OFF Hall C beam dump work	Last reboots. Sftwr hot checkout 2K pumpdown →	Lockup Begin Hot Checkout RECO on duty Start 2K operations FL02 Warm up	Lockup Hot Checkout & RF (day only) Stable 2K operations Transformer Oil Chng T5 (Count Hse), T10 (B98, Phys Storage), T11 (ESR 4160V) ESR Shutdown →	Lockup Begin Ops coverage Hot Checkout SL16 Arc restrrike test Transformer rain day →	
Swings	PSS Cert: Inj/NL RF to HV. Gun & BCMs functional	PSS Cert: SL / BSY FL02 LL to 20%	PSS Cert: All Halls	PSS Cert: ALL funct test	PSS Cert: Float Restoration Start	
Owl 29	30	31	September 1	2	3	4
Day	Injector Studies RF Optimization Hall A dump screen FL02 4.5K cooldown →		PD on duty		Software beam tests	TC diagnostics comm
Swing		PSS: Gun cert	Machine Lockup Baseline Energy Rest.			
Owl 5	6	7	8	9	10	11
Day	Labor Day Holiday		Energy Change 1.137MeV/pass			
Swing		Hall Lockup Swing/Owl Hot Checkout →			Hall Lockup 24/7 Beam setup into Halls	
Owl 12	13	14	15	16	17	18
Day	ISR3C12 comm	Collaborative Tests			Restoration End 5.749GeV 10ua/50na/80ua Hall A DVCS 5.749GeV Hall B Primex Hall C E02-019	
Swing						

Hall C beam dump rework: Confined space and RWII

Transformer Oil Change: This requires shutting down the named substations for an 8 hour period.

LN1: North Linac SB & Tunnel ~ front 3rd

W5: W4, W5 & Tunnel, EM loop

CH1: CHL 4160 feed



Questions? S.Suhring, x7670 or J.Ludwig, x7416





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